

PTO/SB/96 (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

work Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number, STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: Loyd E. East, Jr., et al Application No./Patent No.: 10/727,453 Filed/Issue Date: 12/4/2003 Entitled: Method of Optimizing Production of Gas from Vertical Wells in Coal Seams Halliburton Energy Services, Inc., a corporation (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) states that it is: 1. A the assignee of the entire right, title, and interest; or 2. an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is in the patent application/patent identified above by virtue of either: A. [X] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame ____, or for which a copy thereof is attached. OR B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: - To: -The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____ ____, or for which a copy thereof is attached. To: The document was recorded in the United States Patent and Trademark Office at Reel ____, Frame ____ , or for which a copy thereof is attached. The document was recorded in the United States Patent and Trademark Office at _____, Frame _____, or for which a copy thereof is attached. [] Additional documents in the chain of title are listed on a supplemental sheet. X | Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Date 580-251-3125 Telephone number Signature . Senior Counsel

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ASSIGNMENT

Whereas, I/We, Loyd E. East, Jr. of Denton County, Carrollton, Texas, S. Dana Weida of Denton County, Carrollton, Texas, Mohamad Y. Soliman of Denton, Carrollton, Texas, and Jim B. Surjaatmadja of Stephens County, Duncan, Oklahoma, have invented "Method of Optimizing Production of Gas from Vertical Wells in Coal Seams" for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application serial number 10/727,453 filed on 12/4/2003, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed thisday of January, 2004, at Carrollton, Denton County, Texas, U.S.A.
522+Q
Signature
STATE OF TEXAS)
COUNTY OF DENTON) ss
Before me personally appeared said Loyd E. East, Jr. and acknowledged the foregoing instrument to be his free act and deed this /b Land day of January, 2004.
Seal Many Kihland (Notary)
Executed this 23 day of January, 2004, at Carrollton, Denton County, Texas, U.S.A.
De Weede Signature
Pennsylvania STATE OF TEXAS STATE OF TEXAS COUNTY OF DENTON SS COUNTY OF DENTON COUNTY OF DENTON SS COUNTY OF DENTON COUNTY OF DEN
Before me personally appeared said S. Dana Weida and acknowledged the foregoing instrument to be his free act and deed this day of January, 2004.
Seal Jonama Jukall (Notary)
Notarial Seal ToniAnn S. Turkall, Notary Public Findley Two Allegheny County

My Commission Expires Feb. 19, 2004

Member, Pennsylvania Association of Notaries

Executed this / 3 # day of	Feb. of January, 2004, at Carrollton, Denton County, Texas, U.S.A.
•	Mun
	Signature
STATE OF TEXAS)) ss
COUNTY OF DENTON	, ·
Before me personally appear instrument to be his free act ar	red said Mohamad Y. Soliman and acknowledged the foregoing and deed this day of January, 2004.
Seal	(Notary)
Executed this 18 day of	February Flanuary, 2004, at Duncan, Stephens County, Oklahoma, U.S.A. Signature
STATE OF OKLAHOMA COUNTY OF STEPHENS)) ss)
Before me personally appeare instrument to be his free act and	ed said Jim B. Surjaatmadja and acknowledged the foregoing deed this day of January , 2004.
Seal	Lammy Englis

Seal 2-13-2006

#02002595

PTO/SB/01 (08-03) Approved for use through 07/31/2006. OMB 0651-0032

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Declaration Submitted With Initial Filing

OR

Declaration Х Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

spond to a collection of information	unless it contains a valid OMB control number.
Attorney Docket Number	2003-IP-011867U1
First Named Inventor	Loyd E. East, Jr.
СОМ	PLETE IF KNOWN
Application Number	10/727,453
Filing Date	12/4/2003
Art Unit	
Examiner Name	

I hereby declare that:	_		_	_	_		-	
Each inventor's residence,	mailing address,	and citizenship are a	as stated h	below next to	their name.			
I believe the inventor(s) na which a patent is sought or			inventor(s	s) of the subje	ct matter w	hich is clair	ned and for	
Method of Optimizing Production of Gas from Vertical Wells in Coal Seams								
O ification of which		(Title of the I	Invention)					
the specification of which								
is attached hereto								
OR								
was filed on (MM/DE)////) 1	2/4/2003	as Uni	ited States Ap	plication N	umber or P	CT International	
Application Number 1	0/727,453	and was amended	on (MM/[) (YYYYDC			(if applicable).	
I hereby state that I have re amended by any amendme			of the abo	ve identified s	pecification	ı, including	the claims, as	
I acknowledge the duty to continuation-in-part applica and the national or PCT into	disclose informa tions, material info ernational filing da	ation which is materi formation which beca ate of the continuation	ame avail n-in-part a	able between application.	the filing d	date of the	prior application	
I hereby claim foreign prior inventor's or plant breeder's	rity benefits unde s rights certificate	er 35 U.S.C. 119(a)- e(s), or 365(a) of any	(d) or (f), PCT inte	, or 365(b) of ernational app	lication whi	ich designa	ated at least one	
country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.								
Prior Foreign Application		Foreign Filing I		Prior	ity	Certified (Copy Attached?	
Number(s)	Country	(MM/DD/YYY	Υ)	Not Cla		Yes	No	
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M Additional foreign applic		re listed on a suppler	mental pri	ority data she	J et PTO/SB/	/02B attach	ed hereto	

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to:	Custome	er Number	r:			OR	V	Corres	pondence address below
Name									
Halliburton Energy Services - ATT	N: Robert A. Kent								
Address									
P.O. Box 1431									
City				Stat	te				ZIP
Duncan				ок					73536-0440
Country		Telephor	ne			Fax			
USA		580-251-3	3125			580-2	251-391	7	
I hereby declare that all stater and belief are believed to be statements and the like so made false statements may jeopardia	e true; and furt ade are punishat	ther that ble by fine	these stat or impriso	emen onmer	nts we nt, or	ere made both, und	with der 18	the kno	wledge that willful false
NAME OF SOLE OR FIRST IN	NVENTOR:		☐ A p	etition	has!	been filed	for thi	is unsigr	ned inventor
Given Name					\Box	Family N	lame		
(first and middle [if any]) Loyd E.						or Surna	ame		
Inventor's Signature	29=	1							Date 2-9-04
Residence: City	State			Cou	ntry			Citizer	nship
Frisco	TX		1	USA				USA	
Mailing Address 1626 Natural Bridge									
City	State				ZIP				Country
Frisco	TX				7503	34			USA
NAME OF SECOND INVENTO)R:				A	petition h	as bee	n filed fo	or this unsigned inventor
Given Name	,					amily Na			
(first and middle [if any]) S. Dana					G	Waggman	ne		
Inventor's Signature Sheerel	10_	Wee	de						Date 1/22/04
Residence: City	State			Coun	ntry			Citizen	ship
Carroliton	TX			US				USA	
Mailing Address 1016 Hunters Creek Drive							1		
City	State				ZIP			Countr	у
arrollton	TX			1	75007			USA	
Additional inventors or a legal rep	presentative are bein	g named on	the 1su	ppleme	ental sh	eet(s) PTO/	SB/02A	or 02LR at	ttached hereto.

PTO/SB/02A (08-03)

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DECLARATION		ADDITIO Supplemen	ONAL INVENTOR	• •	ıe of
Name of Additional Joint Inventor, if any:		A pe	tition has been filed f	for this unsigned	inventor
Given Name (first and middle (if any)		Family Nan	ne or Surname		*****
Mohamed Y.		Soliman			· · · · · · · · · · · · · · · · · · ·
Inventor's Aschure				Date 2/	13/04
Plano Residence: City	TX State		USA Country	US Citizenshi	in
3617 S. Echo Trail Mailing Address			Oddinay		<u>h</u>
Mailing Address	- -				
Plano	TX		75023	USA	
City	State		Zip	Country	<u>y</u>
Name of Additional Joint Inventor, if any:		A peti	ition has been filed fo	or this unsigned i	nventor
Given Name (first and middle (if any)			Family Na	me or Surname	
Jim B.		Surjaatmadja			
Inventor's Byungail -	-	Date 2,	118/04		
Durican Residence: City	OK State		USA Country		US Citizens
1105 Timbercreek Drive Mailing Address					
Mailing Address					
Duncan City	OK State		73533 Zip	USA Country	v
Name of Additional Joint Inventor, if any:		A petif	tion has been filed for		<u> </u>
Given Name (first and middle (if any)			Family Nam	ne or Surname	
Inventor's Signature		Date			
Residence: City	State		Country	·	Citizens

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Zip

Country

State

PTO/SB/81 (05-03)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/727,453
Filing Date	12/04/2003
First Named Inventor	Loyd E. East, Jr., et al
Title	Method of Optimizing
Art Unit	
Examiner Name	
Attorney Docket Number	2003-IP-011867U1

Signature Date Telephone 580–251–3125 IOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple orms if more than one signature is required, see below*.					
Practitioners at Customer Number OR Name Name Registration Number See attached See attached See attached See attached See attached Registration Number See attached See attached See attached See attached See attached See attached Registration Number See attached See attached See attached See attached See attached Registration Number Registration Number See attached See attached See attached Practitioners Office connected therewith. Please change the correspondence address for the above-identified application to: The above-mentioned Customer Number. OR Practitioners at Customer Number. OR Practitioners at Customer Number. OR Practitioners at Customer Number. Signature Address Signature Signature Signature Robert A. Kent Signature Telephone Teleph	I hereby appoint:				
Name Registration Number See attached as my/our attomey(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: The above-mentioned Customer Number. OR Practitioners at Customer Number. OR Firm or Individual Name Address Address City State Zip Country Telephone Fax I am the: Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Signature Telephone 580-251-3125 NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple	Practitioners at Customer Number		-		Number Bar Code
Name Registration Number See_attached as myour attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: The above-mentioned Customer Number. OR Practitioners at Customer Number. OR Address Address City County Telephone I am the: Applicant/Inventor. Applicant/Inventor. Salsignee of record of the entire interest. See 37 CFR 3.71, Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB49). SIGNATURE of Applicant or Assignee of Record Signature Telephone Fax Telephone S80-251-3125 Telephone S80-251-3125 Telephone S80-251-3125 Telephone S80-251-3125 Telephone S80-251-3125 Telephone T	OR				Label Here
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as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: The above-mentioned Customer Number. OR Practitioners at Customer Number. OR Firm or Individual Name Address City Country Telephone I am the: Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name Robert A. Kent Signature Date Telephone	See attached				
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OR Practitioners at Customer Number. Place Customer Number Bar Code Label here OR Firm or Individual Name Address City State Zip Country Telephone Fax I am the: Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name Robert A. Kent Signature OTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple orms if more than one signature is required, see below*.	Please change the correspondence address	for the above-identified application	n to:	· · · · ·	
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Rirm or Individual Name Address Address City State Zip Country Telephone Fax I am the: Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Robert A. Kent Signature Date Telephone 580–251–3125 IOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple orms if more than one signature is required, see below*.	Practitioners at Customer Number.				
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Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name Robert A. Kent Signature Date Telephone 580-251-3125 HOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple orms if more than one signature is required, see below*.	<u> </u>				
Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name Robert A. Kent Signature Date Telephone 580-251-3125 IOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple orms if more than one signature is required, see below*.			Fax		
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Oate Telephone 580-251-3125 IOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple orms if more than one signature is required, see below*.	Name Robert A. Kent				
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orms if more than one signature is required, see below*.	Date			Telephone	580-251-3125
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DECLARATION

REGISTERED PRACTITIONER **INFORMATION** (Supplemental Sheet)

Name	Registration Number	Hame	Registration Number
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Craig W. Roddy	36,256		
John W. Wusternberg	35,415		
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